

KUCHIBHOTLA ET AL.
"Wireless Radio Network Resource Sharing
Among Core Networks And Methods"
Atty. Docket No. CS23738RL

Appl. No. 10/680,522
Confirm. No. 5055
Examiner C. Appiah
Art Unit 2686

REMARKS

Request for Reconsideration, Informal Matters, Claims Pending

The non-final Office action mailed on 23 September 2005 has been considered carefully. Reconsideration of the claimed invention in view of the amendments above and the discussion below is respectfully requested.

Claim 1-13 and 18 stand allowed.

Claims 1-38 are pending.

Discussion of Rejection Under 35 USC 101

Rejection Summary

Claims 27-33 stand rejected under 35 USC 101 as being directed to non-statutory subject matter. The Examiner asserts specifically that Claims 27-33 appear to be drawn toward non-functional descriptive material contrary to MPEP 2106 IV(B)(1)(a).

Discussion

Claims 27-33 have been amended to indicate that the message is "...modulated on a radio frequency carrier" Claims 27-33 are now drawn to practical applications of electromagnetic energy. See MPEP 2106, IV, B, 1(c) "Natural Phenomena Such as Electricity and Magnetism". Kindly withdraw the rejection under 35 USC 101.

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Rejection Under 35 USC 112, Second Para.

Rejection Summary

Claims 5 & 6 stand rejected under 35 USC 112, second para., allegedly because it is unclear whether "information" relates to "network system information".

Discussion

Claim 5 was amended above to recite "... the information about the multiple core networks sharing the common access network includes information...." The newly amended limitation of Claim 5 is duplicative of the corresponding limitation of Claim 1. Thus Claim 1 indisputably provides an antecedent basis for the amended limitation of Claim 5. Kindly withdraw the rejection under 35 U.S.C. 112.

In Claim 6, the "... the information about the multiple core networks sharing the common access network..." is also duplicative of corresponding limitations of Claim 1. Thus Claim 1 indisputably provides an antecedent basis for the amended limitation of Claim 6. Kindly withdraw the rejection under 35 U.S.C. 112.

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Allowability of Claims Over Mildh

Rejection Summary

Claims 14-17, 19, 21, 22, 26 and 34-36 stand rejected under 35 USC 102(e) as being unpatentable over U.S. Publication No. 20020193139 (Mildh).

Claims 37 and 38 stand rejected under 35 USC 103(a) as being unpatentable over U.S. Publication No. 20020193139 (Mildh) in view of well known prior art.

Allowability of Claim 14

Regarding Claim 14, Mildh fails to disclose or suggest a

... method in a communication device, the method comprising:
receiving system information,
the system information including pointer information indicating
where the communication device may obtain information about multiple core
networks sharing a common access network from which the system
information was received;
attempting to connect to one of the multiple core networks using the
information about multiple core networks sharing the common access
network from which the system information was received.

Mildh discloses selecting among different technologies, i.e., GERAN or UTRAN technology. According to Mildh, in para. [0015], the selection is based on registration information in the HLR, wherein the network may select the technology for the terminal. At para. [0035], Mildh alternatively permits the terminal to select the technology based on information stored in a SIM card on the terminal. Thus there is no reason for Mildh to provide system

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information including "... about multiple core networks sharing a common access network" Moreover, nowhere does Mildh discuss sending system information including "... pointer information indicating where the communication device may obtain information about multiple core networks sharing a common access network" Claim 14 is therefore patentably distinguished over Mildh.

Allowability of Claim 15

Regarding Claim 15, contrary to the Examiner's assertion, Heuval fails to disclose or suggest in combination with the limitations of Claim 14,

...selecting the one of the multiple core networks to which the communication device attempts to connect using the information about multiple core networks sharing the common access network from which the system information message was received.

At para. [0018], Mildh discloses that the network selects the mode of operation, i.e., Geran or Utran, for the mobile station. In Mildh, the mode of operation determines to which access network the mobile station connects. Claim 15 is thus further patentably distinguished over Mildh.

Allowability of Claim 16

Regarding Claim 16, contrary to the Examiner's assertion, Mildh fails to disclose or suggest in combination with the limitations of Claim 14, "... obtaining an identity for the core network to which the communication device attempts to connect using the pointer information." As noted, Mildh does not

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disclose or suggest sending "pointer information". Claim 16 is thus further patentably distinguished over Mildh.

Allowability of Claim 17

Regarding Claim 17, contrary to the Examiner's assertion, Mildh fails to disclose or suggest in combination with the limitations of Claim 14,

... the system information including a common identity for the multiple core networks sharing the common access network,
attempting to connect to one of the multiple core networks sharing the common access network from which the system information was received upon satisfaction of a condition,
attempting to connect to a core network using the common identity when the condition is not satisfied.

Mildh does not send system information including the identity of core networks sharing a common access network and thus Mildh does not suggest attempting to connect to one of the common networks using the identity information. Claim 16 is thus further patentably distinguished over Mildh.

Allowability of Claim 19

Regarding Claim 19, contrary to the Examiner's assertion, Mildh fails to disclose or suggest a

... method in a communication device, the method comprising:
receiving first system information from a first access network and receiving second system information from a second access network, the first system information including a first core network identity and information on how many core networks share the first access network, the second system information including a second core network identity,

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selecting one of the first and second core network identities based on the number of core networks sharing the first access network.

Mildh discloses selecting among different technologies, i.e., GERAN or UTRAN technology. According to Mildh, in para. [0015], the selection is based on registration information in the HLR, wherein the network may select the technology for the terminal. At para. [0035], Mildh alternatively permits the terminal to select the technology based on information stored in a SIM card on the terminal. In Mildh, the mobile terminal does not receive "... first system information including a first core network identity and information on how many core networks share the first access network..." and select "... one of the first and second core network identities based on the number of core networks sharing the first access network." Claim 19 is therefore patentably distinguished over Mildh.

Allowability of Claim 25

Claim 25 was amended to correct a typographical error. Contrary to the Examiner's assertion, Mildh fails to disclose or suggest a

... method in a communication device, the method comprising:
receiving information about multiple core networks sharing a common access network,
the information including at least one of identities of at least some of the multiple core networks sharing the common access network, core network domain information, information on services supported by at least some of the multiple core networks sharing the common access network;
selecting a core network to which the communication device attempts to connect using the information received.

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Mildh discloses selecting among different technologies, i.e., GERAN or UTRAN technology. According to Mildh, in para. [0015], the selection is based on registration information in the HLR, wherein the network may select the technology for the terminal. At para. [0035], Mildh alternatively permits the terminal to select the technology based on information stored in a SIM card on the terminal. In Mildh, the mobile terminal does not receive "... receiving information about multiple core networks sharing a common access network ... information on services supported by at least some of the multiple core networks sharing the common access network" and select "... a core network to which the communication device attempts to connect using the information received." Claim 25 is thus patentably distinguished over Mildh.

Allowability of Claim 34

Claim 34 was amended to correct a typographical error. Contrary to the Examiner's assertion, Mildh fails to disclose or suggest a

... method in a communications network entity, the method comprising:
receiving preferred core network information from a communication device;
selecting a core network for the communication device;
giving consideration to the preferred core network information received from the communication device when selecting the core network for the communication device.

Mildh discloses selecting among different technologies, i.e., GERAN or UTRAN technology. According to Mildh, in para. [0015], the selection is based on registration information in the HLR, wherein the network may select the technology for the terminal based on the network configuration.

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At para. [0035], Mildh alternatively permits the terminal to select the technology based on information stored in a SIM card on the terminal. Mildh, however, does not disclose receiving preferred core network information from the mobile terminal and selecting a core network for the mobile terminal "... giving consideration to the preferred core network information received from the communication device when selecting the core network for the communication device." In para. [0016], the network operator controls what core network the mobile terminal connects to based on mobile station history. Claim 34 is thus patentably distinguished over Mildh.

Allowability of Claim 36

Claim 36 was amended to correct a typographical error. Contrary to the Examiner's assertion, Mildh fails to disclose or suggest a

... method in a communications network entity, the method comprising:
receiving a communication device identity from a communication device;
selecting a core network from multiple core networks sharing a common access network for the communication device based on the communication device identity.

Mildh discloses selecting among different technologies, i.e., GERAN or UTRAN technology. According to Mildh, in para. [0015], the selection is based on registration information in the HLR, wherein the network may select the technology for the terminal based on the network configuration. At para. [0035], Mildh alternatively permits the terminal to select the technology based on information stored in a SIM card on the terminal. Mildh, however, does not disclose receiving a communication device identity from a

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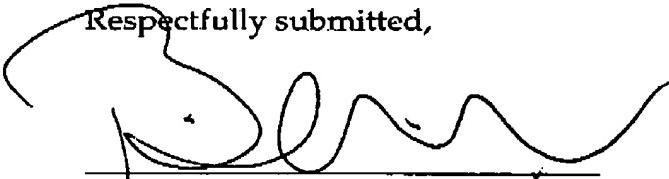
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communication device and selecting a core network from multiple core networks sharing a common access network for the communication device based on the communication device identity. Claim 36 is thus patentably distinguished over Mildh.

Prayer For Relief

In view of the amendments and the discussion above, the Claims of the present application are in condition for allowance. Kindly withdraw any rejections and objections and allow this application to issue as a United States Patent without further delay.

Respectfully submitted,



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